

## PACKING LIST

The complete KSR-11501/11701/11901 package consists of:

- One 1U 19" rack mount console
- Two cabinet mounting kits
- One 1.8M cable( PS/2 mouse, PS/2 keyboard, DB15 VGA)
- One power cord
- One user manual VCD
- One quick installation guide
- Two key
- Six flat screws

Check to make sure that the unit was not damaged in shipping. If you encounter a problem, contact your dealer.

Please read this manual thoroughly, and follow the installation and operation procedures carefully to prevent any damage to the product, and/or any of the devices that connect to it.

## SAFETY INSTRUCTIONS

1. Please read these safety instructions carefully.
2. Please keep this User's Manual for later reference.
3. Please disconnect this equipment from AC outlet before cleaning. Don't use liquid or sprayed detergent for cleaning. Use moisture sheet or clothe for cleaning.
4. For pluggable equipment, the socked-outlet shall be installed near the equipment and shall be easily accessible.
5. Please keep this equipment from humidity.
6. Lay this equipment on a reliable surface when install. A drop or fall could cause injury.
7. Do not leave this equipment in an environment unconditioned, storage temperature above 60° C, it may damage the equipment.
8. The opening on the enclosure is for air convection hence the equipment from overheating. DO NOT COVER THE OPENING.
9. Make sure the voltage of the power source connect the equipment to the power outlet.
10. Please keep the power cord such a way that people can not step on it. Do not place anything over power cord. The power cord must rate for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and the current rating marked on the product.
11. All cautions and warning on the equipment should be noted.
12. If the equipment is not in use for long time, disconnect the equipment from mains to avoid being damaged by transient over-voltage.
13. Never pour any liquid into ventilation openings; this could cause fire or electrical shock.
14. Never open the equipment. For safety reason, qualified service personnel should only open the equipment.
15. If one of the following situations arises, get the equipment checked by service personnel.
  - The Power Cord or plug is damaged.
  - Liquid has penetrated into the equipment.
  - The equipment has been exposed to moisture.
  - The equipment has not worked well or you can not get it work according to User's Manual.
  - The equipment has dropped and damaged.
  - If the equipment has obvious signs or breakage.

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## CHAPTER 1 GENERAL INFORMATION

### 1.1 Overview

The KVM Console is an ideal solution for network administration with multiple servers / platforms. Their 15-inch and 17-inch 19-inch large size TFT LCD color display and ultra-low-profile compact industrial keyboard / touchpad provide the user-friendliest and most reliable environment for network administrators. All these functions are integrated in a 19-inch 1U space with rugged construction design to achieve ultra space saving and high reliability for high quality industrial network applications.

The KVM Console drawers provide superior picture quality and state-of-the-art features mounted in an industrial grade, rack mount drawer. The drawer forms a rugged enclosure that protects the monitor from industrial hazards and permits easy access to monitor controls.

The KVM Console monitors provide flicker-free color images at optimal resolutions. The monitors' 0.264mm pixel pitch ensures crisp images with clear definition, even at high resolutions. The KVM Console monitors are intelligent, microprocessor-based, and have an ergonomically designed display.

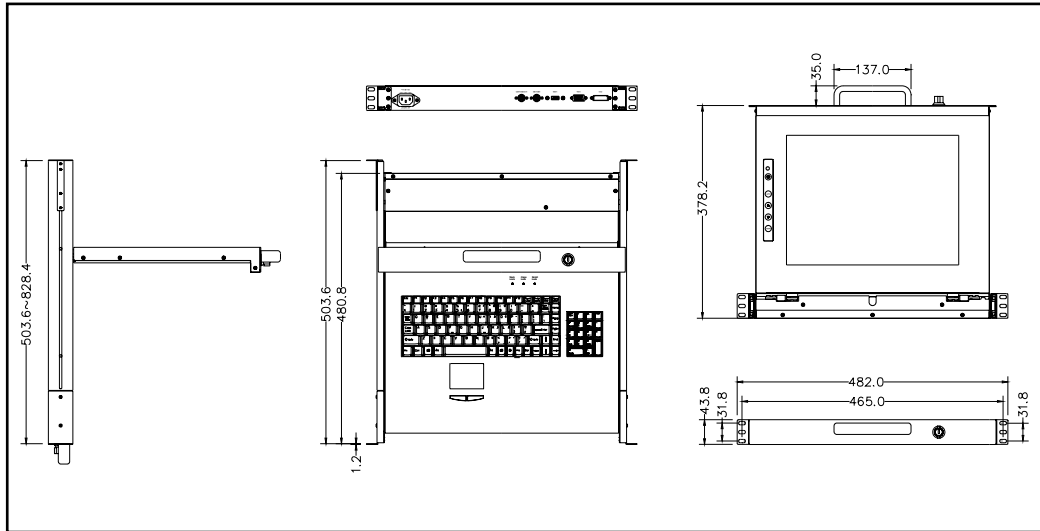
The KVM Console monitors employ the latest in active matrix thin film transistor (TFT) technology, providing crisp screen images and wide viewing angles. Unlike CRT monitors, LCD monitors are inherently immune to the magnetic fields commonly found on the plant floor or communications centers. LCDs are also typically brighter than conventional CRT technology, making them ideal for the high ambient lighting conditions found in many of today's factory environments. On-screen menus allow for display adjustments. In addition, the monitors' Plug-n-Play+ features support Windows 95/98, NT and XP, while a universal power supply ensures global applicability.

The KVM Console monitors are compatible with most analog RGB (red, green, blue) display standards, including PS/2, optional for Sun Micro System, Apple Macintosh Centris, Quadra, and Macintosh II family signals. The LCD monitor is capable of displaying crisp and vibrant color graphics with VGA, S2GA, XGA (non-interlaced), and most Macintosh compatible color video cards.

## 1.2 Product Specification

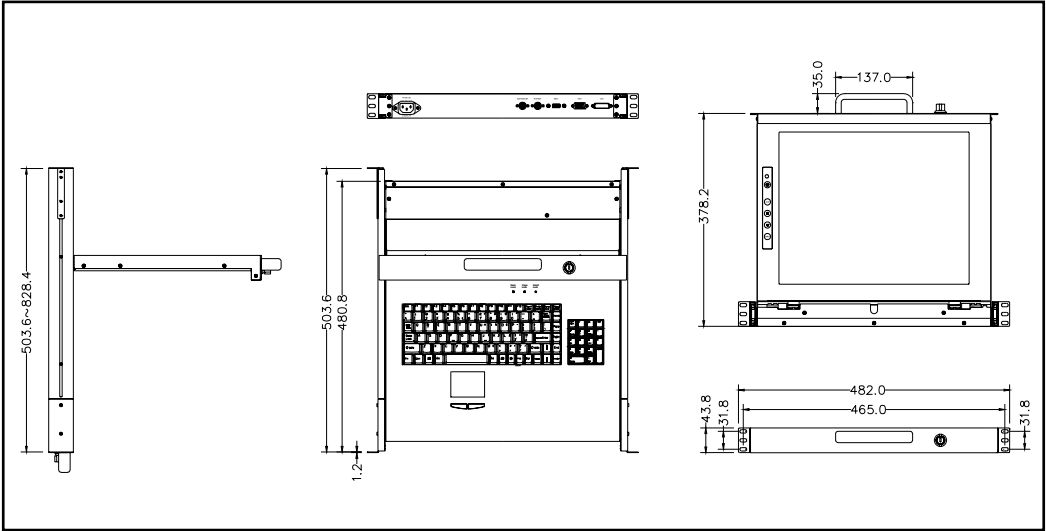
### 1.2.1 KSR-11501 Specification

Display Size	15"
Panel Type	Active Matrix TFT LCD
Resolution Capabilities	Maximum Resolution up to 1024X768 (XGA)
Pixel Pitch	Supports 0.297mm x0.297mm
Viewing Angle (CR>10)	Right-Left view 130 (Typ) Up-Down View 100 (Typ)
Contrast Ratio	400:1
Brightness	White 250cd/m2 (Center 1 point Typ)
Back Light	Dual Lamps for Back Light
Supported Colors	16M Colors (6-bit with FRC)
Response Time	Rising Time 5ms, Decay Time 11ms
Operating System	Dos, Windows (3.1, 9x, 2000, NT4, ME, XP, 2003 Server) Linux, Novell 3.12-6, HP UX, SUN
Multi Platform	Support PS/2, SUN and USB
System Cables	VGA+2xPS/2 cable
Keyboard Mouse	106 key PS/2 keyboard with touch pad
Sync	45~80KHZ
Power Source	100-240 VAC input
Power Consumption	16W, 10.41W for Panel
Temperature	Operate 0°~ 50° C / 32° ~ 122°F Storage-20° ~ 60° C / -4° ~ 140°F
Humidity	10%~90%RH
Dimension	447.5x482x44mm / 17.6x19.0x1.7in
Package Dimension	565x660x210mm / 22.2x26.0x8.3in
Net Weight	11.8Kg / 26.0Lb
Gross Weight	15.8Kg / 34.8Lb
Chassis Construction	Heavy duty steel materials
Keyboard Language	USA, UK, German, French, Spanish, Italian, Portuguese, Dutch, Swiss. Belgium, Swedish, Norwegian, Danish, Japan, Taiwan.
Certification	CE/FCC UL



## 1.2.2 KSR-11701 Specification

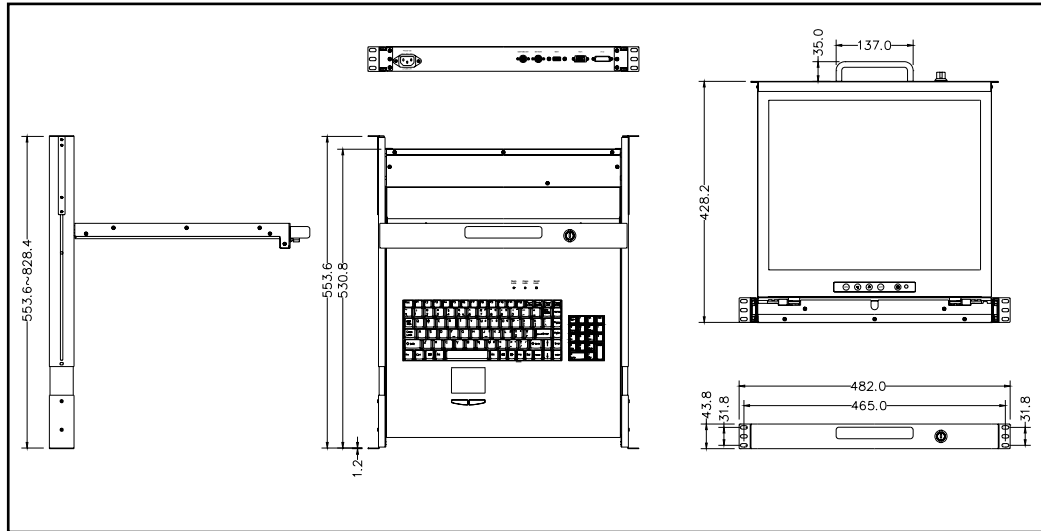
Display Size	17"
Panel Type	Active Matrix TFT LCD
Resolution Capabilities	Maximum Resolution up to 1280X1024 (SXGA)
Pixel Pitch	Supports 0.264mm x0.264mm
Viewing Angle (CR>10)	Right-Left view 60~70 (Typ) Up-Down View 45~ 60(Typ)
Contrast Ratio	450:1
Brightness	White 250cd/m2 (Center 1 point Typ)
Back Light	Four Lamps for Back Light
Supported Colors	16.2M Colors (6-bit with FRC)
Response Time	Rising Time 2ms, Decay Time 14ms
Operating System	Dos, Windows (3.1, 9x, 2000, NT4, ME, XP, 2003 Server) Linux, Novell 3.12-6, HP UX, SUN
Multi Platform	Support PS/2, SUN and USB
System Cables	VGA+2xPS/2 cable
Keyboard Mouse	106 key PS/2 keyboard with touch pad
Sync	45~80KHZ
Power Source	100-240 VAC input
Power Consumption	25W, 19.05W for Panel
Temperature	Operate 0°~ 50° C / 32° ~ 122°F Storage-20° ~ 60° C / -4° ~ 140°F
Humidity	10%~90%RH
Dimension	447.5x482x44mm / 17.6x19.0x1.7in
Package Dimension	565x660x210mm / 22.2x26.0x8.3in
Net Weight	13.0Kg / 28.66Lb
Gross Weight	17.0Kg / 37.47Lb
Chassis Construction	Heavy duty steel materials
Keyboard Language	USA, UK, German, French, Spanish, Italian, Portuguese, Dutch, Swiss. Belgium, Swedish, Norwegian, Danish, Japan, Taiwan
Certification	CE/FCC UL







## 1.2.3 KSR-11901 Specification

Display Size	19"
Panel Type	Active Matrix TFT LCD
Resolution Capabilities	Maximum Resolution up to 1280X1024 (SXGA)
Pixel Pitch	Supports 0.098mm x0.294mm
Viewing Angle (CR>10)	Right-Left view 140 (Typ) Up-Down View 140(Typ)
Contrast Ratio	500:1
Brightness	White 250cd/m2 (Center 1 point Typ)
Back Light	Four Lamps for Back Light
Supported Colors	16.2M Colors (6-bit with FRC)
Response Time	Rising Time 2ms, Decay Time 10ms
Operating System	Dos, Windows (3.1, 9x, 2000, NT4, ME, XP, 2003 Server) Linux, Novell 3.12-6, HP UX, SUN
Multi Platform	Support PS/2, SUN and USB
System Cables	VGA+2xPS/2 cable
Keyboard Mouse	106 key PS/2 keyboard with touch pad
Sync	45~80KHZ
Power Source	100-240 VAC input
Power Consumption	25W, 21.05W for Panel
Temperature	Operate 0°~ 50° C / 32° ~ 122°F Storage-20° ~ 60° C / -4° ~ 140°F
Humidity	10%~90%RH
Dimension	447.5x532x44mm / 17.6x20.9x1.7in
Package Dimension	565x660x210mm / 22.2x26.0x8.3in
Net Weight	15.0Kg / 33.06Lb
Gross Weight	19.0Kg / 41.88Lb
Chassis Construction	Heavy duty steel materials
Keyboard Language	USA, UK, German, French, Spanish, Italian, Portuguese, Dutch, Swiss. Belgium, Swedish, Norwegian, Danish, Japan, Taiwan
Certification	CE/FCC UL



## CHAPTER 2 PANEL CONTROLS AND OSD FUNCTIONS

<div>○ <b>Status</b></div> <div>○ </div> <div>○ <b>Auto</b></div> <div>○ <b>Up</b></div> <div>○ <b>Down</b></div> <div>○ <b>Menu</b></div>	Controls	Description
		Soft power on/off button. Adjacent LED is lit when on.
	<b>Auto</b>	Auto-synchronize and scale down display to any valid factory preset timings.
	<b>Up</b>	Press to scroll the function you want to adjust.
	<b>Down</b>	Press to scroll the function you want to adjust.
	<b>Menu</b>	To access the main menu. This bottom also acts as the “Enter” bottom.

### 2.1 Auto tune

Press the “auto tune” bottom. The panel will adjust the display size automatically and also tune the panel to its best condition.

### 2.2 Input Source

1. Press the “menu” bottom.
2. Use the “Down” and “Up” bottom to scroll.

Auto tune.

#### **Input Source**

Brightness

Contrast

Color

Position

Language

Recall

Exit

3. Press the “menu” bottom to enter, and you will see:

VGA/DVI

4. Use the “Down” and “Up” bottom to select the input source of signal.
5. Press the “menu” bottom to enter

## 2.3 Brightness

1. Press the “menu” bottom.
2. Use the “Down” and “Up” bottom to scroll.
  - Auto tune.
  - Input Source
  - Brightness**
  - Contrast
  - Color
  - Position
  - Language
  - Recall
  - Exit
3. Press the “menu” bottom to enter.
4. Use the “Down” and “Up” bottom to adjust the brightness of the display.
5. Press the “menu” bottom to enter.

## 2.4 Contrast

1. Press the “menu” bottom.
2. Use the “Down” and “Up” bottom to scroll.
  - Auto tune.
  - Input Source
  - Brightness
  - Contrast**
  - Color
  - Position
  - Language
  - Recall
  - Exit
1. Press the “menu” bottom to enter.
2. Use the “Down” and “Up” bottom to adjust the contrast of the display.
3. Press the “menu” bottom to enter.

## 2.5 Color

1. Press the “menu” bottom.
2. Use the “Down” and “Up” bottom to scroll.
  - Auto tune.
  - Input Source
  - Brightness
  - Contrast
  - Color**

Position  
Language  
Recall  
Exit

3. Press the “menu” bottom to enter. And you will see:

Icon	Description
9300°K	To set CIE coordinates at 9300°K color
7500°K	To set CIE coordinates at 7500°K color
6500°K	To set CIE coordinates at 6500°K color
User	To set user defined CIE
Auto color	To auto adjust color
Return	To exit and return to the previous page

4. Use the “Down” and “Up” bottom to adjust the color of the display.

5. Press “menu” to enter.

## 2.6 Position

1. Press the “menu” bottom.

2. Use the “Down” and “Up” bottom to scroll.

Auto tune.  
Input Source  
Brightness  
Contrast  
Color  
**Position**  
Language  
Recall  
Exit

3. Press the “menu” bottom to enter. And you will see:

Icon	Description
<b>Image Pos</b>	To adjust the position of the image.
OSD Pos	To adjust the position of the OSD.
Return	To exit and return to the previous page

4. Use the “Down” and “Up” bottom to scroll.

5. Press the “menu” bottom to enter.

## 2.7 Language

1. Press the “menu” bottom.

2. Use the “Down” and “Up” bottom to scroll.

Auto tune.  
Input Source  
Brightness  
Contrast  
Color  
Position  
**Language**  
Recall  
Exit

3. Press the “menu” bottom to enter. And you will see:

**English**  
German  
French  
Italian  
Spanish

4. Use the “Down” and “Up” bottom to scroll.

5. Press the “menu” bottom to enter.

## 2.8 Recall

1. Press the “menu” bottom.

2. Use the “Down” and “Up” bottom to scroll.

Auto tune.  
Input Source  
Brightness  
Contrast  
Color  
Position  
Language  
**Recall**  
Exit

3. Press the “menu” bottom to enter, and you will see:

**Yes/ No**

4. Select “Yes” bottom then ‘Menu” bottom to recall the factory setting. Select “No” to return to the previous page.

## 2.9 Exit

Press the “exit” bottom to quit OSD menu.

## 2.10 Power Indicator

◆ GREEN    ON

- ♦ RED       STANDBY
- ♦ RED       SUSPEND
- ♦ RED       OFF

**Note:**

OSD – On Screen Display

## CHAPTER 3 INSTALLATION

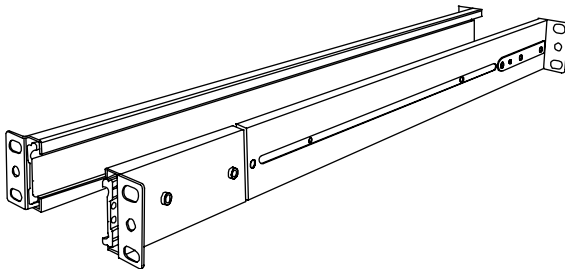
### 3.1 Install Console to Cabinet

#### 3.1.1 Notes

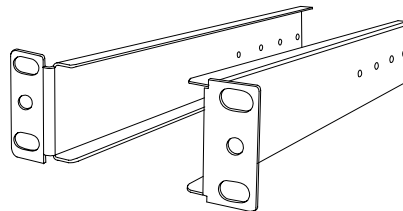
1. Please check all peripherals according the list before installation. To make sure that the whole unit was not damaged and lost during shipping process. If you encounter any problem, please contact your dealer.
2. Before installation, make sure all peripherals and computer have been turned off.
3. The standard brackets are for 504~1000mm (distance means front bracket to rear bracket) cabinet, contact your dealer if you need more longer rear brackets.

#### 3.1.2 Hardware Kits Contents

1. Rail with front and rear bracket x 2. (Please identify the brackets. Right and left sides are different. For rack depth 504~828mm)



2. Long bracket x 2. (Needed for rack depth 828~1000mm)



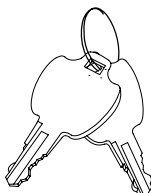
3. Flat screw x 6 (for rail mount to console body)



4. Screw x 6



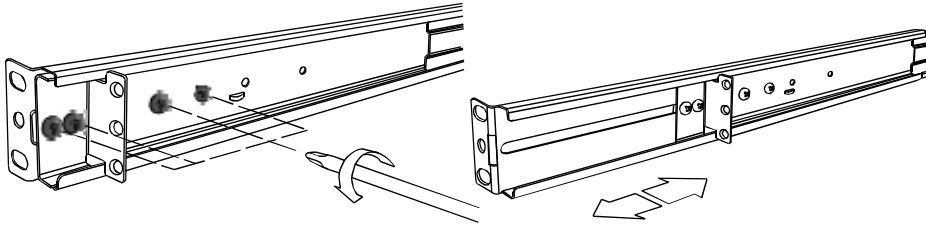
5. Key x 2



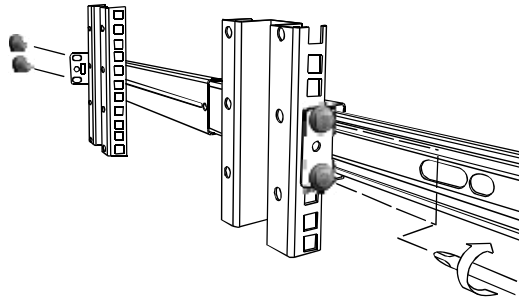


### 3.1.3 Installation Step

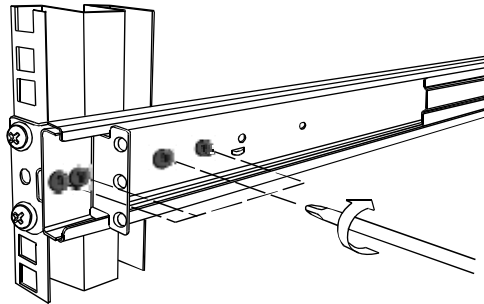
1. Loose (Not release) four rear screws then adjust rear bracket to fit your cabinet.



2. Install front and rear bracket on cabinet.

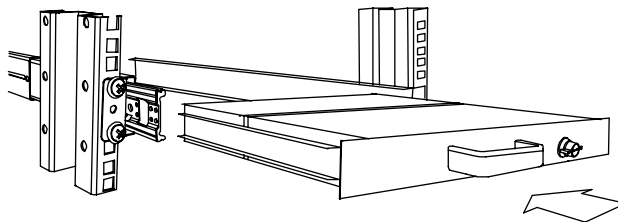


3. Tight-up four rear screws.

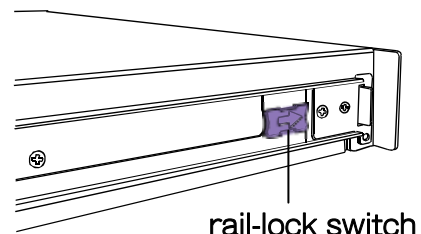
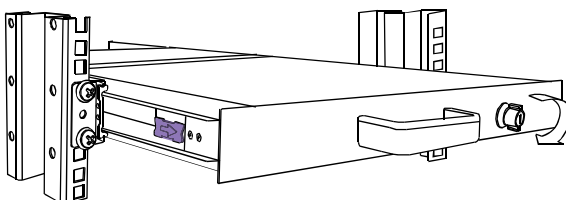


4. Repeat step 1~3 for the other side.

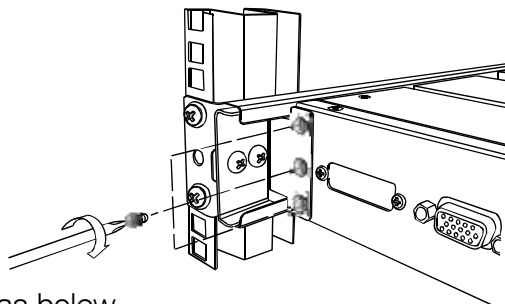
5. Push console into left and right rails. (Be careful when take out console.)



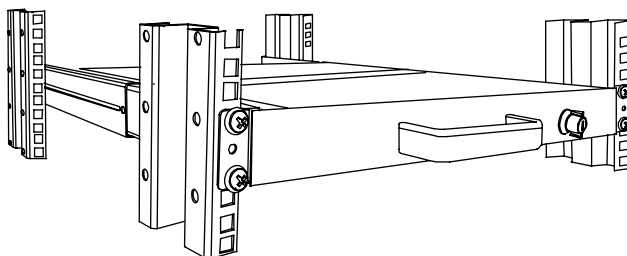
6. Unlock and pull rail-lock switch (left and right at the same time) then push console to the end.



7. Install three screws in rear of the console. (Both sides)

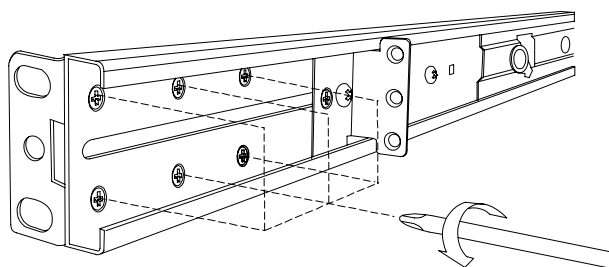


8. Finish installation as below.

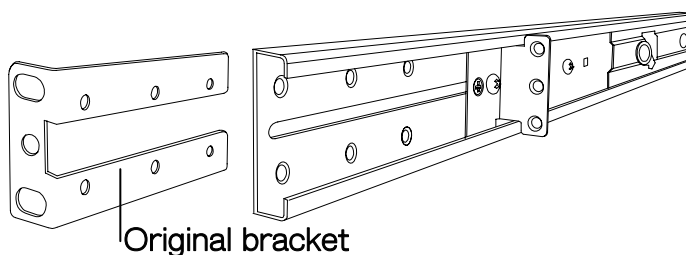


### 3.1.4 Replace longer bracket Step (For rack depth 828~1000mm)

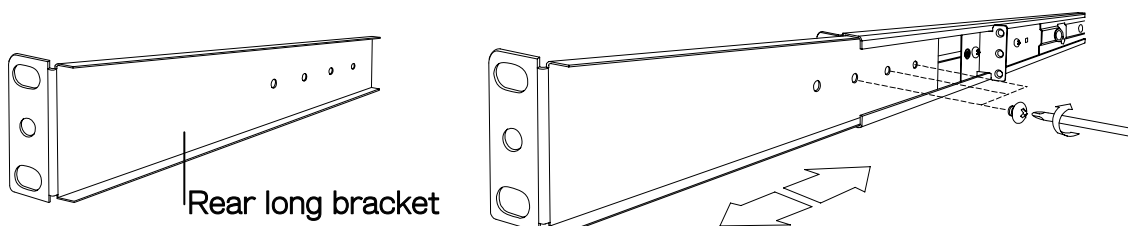
1. Release six screws.



2. Take rear bracket out.



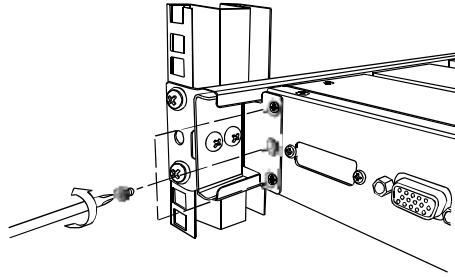
3. Input rear long bracket to rear of the rail then adjust rear bracket to fit your cabinet. Tight-up 2~3 screws upon the length you need. One is forbidden.



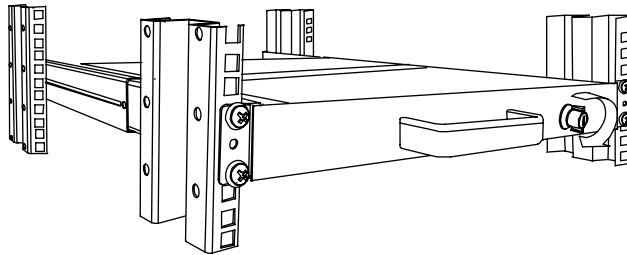
4. Repeat step 1~3 for the other side.
5. Repeat 3.1.3 step to install console to cabinet.

### 3.1.5 Unload Step

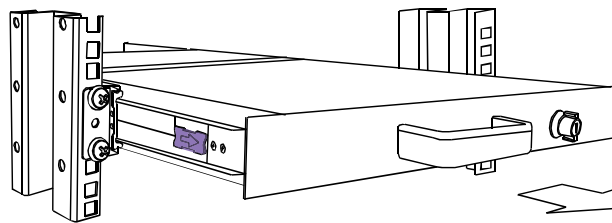
1. Make sure the console is lock.
2. Release three screws in rear of the console. (Both sides)



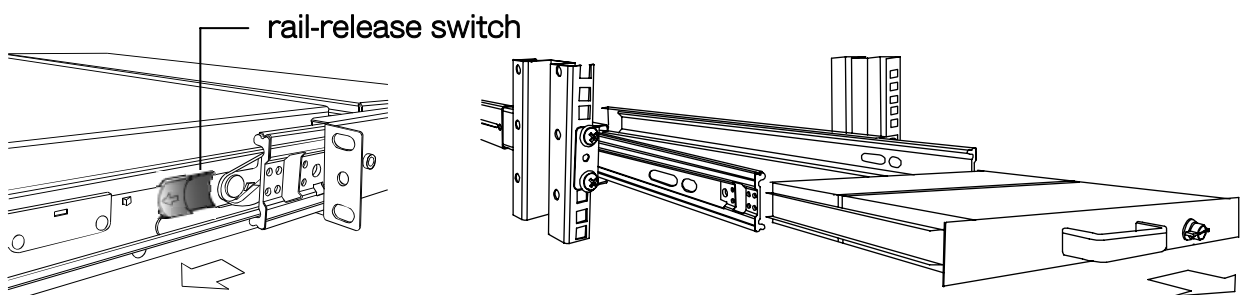
3. Unlock.



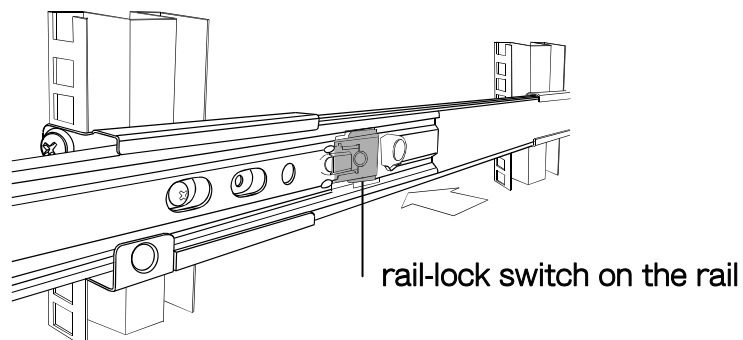
4. Pull console out until console lock.



5. Pull rail-release switch and pull console out.(Both sides. Be careful when pull out console.)



6. Push rail-lock switch on the rail and push rail back.(Both sides)



## 3.2 Installing the Video Card and Video Driver

Before connecting the LCD console, make sure your computer has a video card already installed for the monitor. After you connect the drawer, install the video software driver. The video driver is supplied by the video card manufacturer and may be found on the CDROM that came with your computer. If you need information on installing a video card or video driver, refer to the manual that came with your video card.

### 3.2.1 Configuring the Display Settings

After connecting the drawer and turning on your computer, you may need to configure one or more of the following display settings:

- Display mode (also called desktop area or video resolution)
- Refresh rate (also called vertical scan rate or vertical sync)
- Color depth (also called color palette or number of colors)

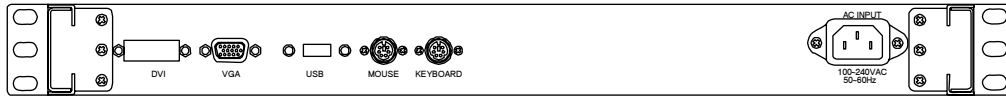
Each video card has several controls that let you adjust the display settings. However, the software and driver for each video card is unique. In most cases, you adjust these settings by using a program or utility provided by the manufacturer of the video card. Most video cards use the Windows Display Properties control panel to configure the display. To open the Windows Display Properties, click the right mouse button in a blank area of the Windows desktop and then select **Properties**. The Settings tab usually lets you change the Color Palette and the Desktop Area (*x by y* pixel resolution).

Some video cards integrate additional features into the Windows Display Properties control panel to give you an exceptional setup that is flexible and easy to use. For example, the control panel may include an Advanced Properties button, an Adjustment tab, or a Refresh tab for changing other settings. Other video cards have a separate utility for setting display properties.

Whenever you change the resolution, color, or refresh rate, the image size, position, or shape may change. This behavior is normal. You can readjust the image using the monitor on-screen controls. For more information on the monitor on-screen controls, refer to Chapter 2. For more information on configuring the display settings, refer to the manual that came with your video card.

### 3.2.2 Connecting the Drawer

To connect an LCD console to a computer, perform the following steps



The rear view of LCD console

1. Turn off your computer. You should always turn off your computer before connecting or disconnecting a device.
2. Connect the video (VGA) connector of the KVM cable to the video card connector on the rear panel of your computer.
3. Identify and connect the PS/2 mouse and PS/2 keyboard connector to the correct PS/2 ports on the rear panel of your computer.
4. Connect the AC power cord to the power inlet on the drawer and then to a power outlet.

### 3.3 Turning on the Drawer

Make sure all cables and the power cord are connected properly. Be sure to tighten all connector screws. Using two hands, grasp the rear of the drawer, lift the tab and pull the panel up and forward. This will disengage the momentary on/off switch and the unit should power on. The LED on the left of the monitor panel should turn from orange to green, verifying that the unit is operational.

### 3.4 Testing the Drawer

To test that the drawer is working properly, perform the following steps:

1. Power up the monitor/keyboard drawer, and then turn on your computer.
2. Make sure the video image is centered within the screen area. Use the OSD controls to adjust the image (see note below) or press the Auto button on the right hand side of the monitor.

**Note:** If the unit does not power up when the panel is pulled up, try pushing the soft power on/off button on the left side of the monitor panel to power up the unit.

**Note:** You can adjust the horizontal and vertical position, contrast, and brightness to better suit your video card and your personal preference. Refer to Chapter 2 for more information on using the on-screen menu to adjust the video display

Before you begin, make sure that powers to all the devices you will be connecting up have been turned off. To prevent damage to your installation due to ground potential difference,

make sure that all the devices on the installation are properly grounded. Consult your direct vendor for any technical issues if necessary.